

REMARKS

At the outset, Applicants wish to thank the Examiner for the thorough review and consideration of the subject application. The Non-Final Office Action of January 16, 2003 has been received and its contents carefully noted. Claims 1-20 have been amended and claims 21-23 are newly added. The specification has been amended to correct some reference number inconsistencies due to typographical errors, no new matter has been added. Accordingly, claims 1-23 are pending in this application of which claims 1 and 21 are independent.

In the Office Action, claims 1 and 17-19 were rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,334,993 issued to Okajima et al. ("Okajima"); claims 1-4 and 16 were rejected under 35 U.S.C. § 102(b) by U.S. Patent No. 5,422,751 issued to Lewis et al. ("Lewis"); claims 5-8 and 13-15 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Lewis as applied to claims 1-4 above, in view of U.S. Patent No. 6,295,103 issued to Yamatani et al. ("Yamatani"); claims 9-12 were rejected under 35 U.S.C. § 103 as being unpatentable over Lewis as applied to claim 2 above, in view of U.S. Patent No. 5,946,061 issued Kurihara et al. ("Kurihara"); and claim 20 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Okajima as applied to claim 19, above, in view of U.S. Patent No. 6,295,103 issued to Yamatani et al. ("Yamatani"). Applicants respectfully traverse these rejections and reconsideration is hereby requested.

Rejections Under 35 U.S.C. § 102

Claims 1 and 17-19 were rejected under 35 U.S.C. § 102(b) as being anticipated by Okajima. Applicants respectfully traverse this rejection and hereby request reconsideration.

Amended claim 1 recites a combination of elements including, for example, "a receiver for providing a receiving space where the back light assembly is to be located, the receiver including a first receptacle module and a second receptacle module arranged together for enclosing the receiving space, wherein the second receptacle module includes a first mold frame and a second mold frame, the first mold frame and the second mold frame including a groove shape portion for supporting the back light assembly; and a bottom plate arranged on the second receptacle module, the bottom plate extends into the receiving space from the second receptacle module for supporting a display unit." None of the cited references singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that independent claim 1 and dependent claims 2-20, which depend from independent claim 1, are allowable.

Claims 1-4 and 16 were rejected under 35 U.S.C. § 102(b) by Lewis. Applicants respectfully traverse these rejections and reconsideration is hereby requested.

For similar reasons as discussed above amended independent claim 1 is allowable over the cited references. Amended claim 1 recites a combination of elements including, for example, "a receiver for providing a receiving space where the back light assembly is to be located, the receiver including a first receptacle module and a second receptacle module arranged together for enclosing the receiving space, wherein the second receptacle module includes a first mold frame and a second mold frame, the first mold frame and the second mold frame including a groove shape portion for supporting the back light assembly; and a bottom plate arranged on the second receptacle module, the bottom plate extends into the receiving space from the second receptacle module for supporting a display unit." None of the cited references singly or in

combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that independent claim 1 and dependent claims 2-20, which depend from independent claim 1, are allowable.

Rejections Under 35 U.S.C. § 103

Claims 5-8 and 13-15 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Lewis as applied to claims 1-4 above, in view of Yamatani. Applicants respectfully traverse these rejections and reconsideration is hereby requested.

For similar reasons as discussed above independent claim 1 is allowable over Okajima and Lewis. Yamatani fails to cure the deficiencies of Okajima and Lewis, as amended independent claim 1 recites a combination of elements including, for example, “a receiver for providing a receiving space where the back light assembly is to be located, the receiver including a first receptacle module and a second receptacle module arranged together for enclosing the receiving space, wherein the second receptacle module includes a first mold frame and a second mold frame, the first mold frame and the second mold frame including a groove shape portion for supporting the back light assembly; and a bottom plate arranged on the second receptacle module, the bottom plate extends into the receiving space from the second receptacle module for supporting a display unit.” None of the cited references singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that independent claim 1 and dependent claims 2-20, which depend from independent claim 1, are allowable.

Additionally, the Examiner takes Official Notice by stating “putting screws from above or below to join two such pieces are art-recognized equivalents, and it would therefore be

obvious to one of ordinary skill in the art to have the recess in the second receptacle (and put the screws in from below) since these are equivalent." (Office Action at 4.) The Examiner may take Official Notice of facts outside of the record which are capable of instant and unquestionable demonstration as being "well-known" in the art. *In re Ahlert*, 424 F.2d 1088, 1091, 165 USPQ 418, 420 (CCPA 1970). As set forth in M.P.E.P. § 2144.03, if an applicant traverses an assertion made by an Examiner while taking official notice, the Examiner should cite a reference in support of their assertion.

Accordingly, Applicants seasonably traverse the use of Official Notice and respectfully request the Examiner to provide a reference in support of the assertions.

Claims 9-12 were rejected under 35 U.S.C. § 103 as being unpatentable over Lewis as applied to claim 2 above, in view of Kurihara. Applicants respectfully traverse these rejections and reconsideration is hereby requested.

For similar reasons as discussed above, Yamatani, Lewis and Okajima are materially deficient as references. Kurihara fails to cure the deficiencies of those references. Accordingly, Applicants respectfully submit that independent claim 1 and dependent claims 2-20, which depend from independent claim 1, are allowable.

Claim 20 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Okajima as applied to claim 19, above, in view of U.S. Patent No. 6,295,103 issued to Yamatani. Applicants respectfully traverse these rejections and reconsideration is hereby requested.

For similar reasons as discussed above, none of the cited references singly or in combination teach or suggest all the combination of elements of amended independent claim 1.

Accordingly, Applicants respectfully submit that independent claim 1 and dependent claim 2-20, which depend from independent claim 1, are allowable.

Other Matters

Newly added claims 21-23 are allowable over the cited references as these claims recite a combination of elements that is neither singly or in combination taught nor suggested.


Accordingly, Applicants respectfully request favorable consideration of the newly added claims.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 23-1951. Please credit any overpayment to deposit Account No. 23-1951.

Prompt and favorable consideration of this Amendment is respectfully requested.

Respectfully submitted,


Hae-Chan Park
Reg. No. 50,114

Date: April 10, 2003

McGuire Woods LLP
1750 Tysons Boulevard
Suite 1800
McLean, VA 22102-4215
Tel: 703-712-5000
Fax: 703-712-5050
HCP:WSC/kbs

Attachment:

APPENDIX A

The "marked-up" version of the amended specification is as follows.

1. (Amended) A liquid crystal display device, comprising:

a back light assembly having a light source and a luminance improving device that guides the light; and

a receiver [means formed of at least one material,] for providing a receiving space where the back light assembly is to be located the receiver including a [by engaging at least two receiving members] first receptacle module and second receptacle module arranged together for enclosing the receiving space, wherein the second receptacle module includes a first mold frame and a second mold frame, the first mold frame and second mold frame including a groove shape portion for supporting the back light assembly; and

a bottom plate arranged on the second receptacle module, the bottom plate extends into the receiving space from the second receptacle module for supporting a display unit.

2. (Amended) [A] The liquid crystal display device [according to] of claim 1, wherein the [receiver comprises a] first receptacle module is composed of a first material[;], and

wherein [a] the second receptacle module [engaged with] is arranged near both ends of the first receptacle module,

wherein the second receptacle module [provides]substantially closes the receiving space where the back light assembly is located, and

wherein the second receptacle module is composed of a second material that is different from the first material.

3. (Amended) [A] The liquid crystal display device [according to] of claim 2, wherein the first material is metal and the second material is plastic.

4. (Amended) [A] The liquid crystal display device [according to] of claim 3, wherein the first receptacle module [is formed of] includes [at least one a plate and has] an engaging hole.

5. (Amended) [A] The liquid crystal display device [according to] of claim 4, wherein [the second receptacle module comprises a first mold frame and a second mold frame] the first mold frame and the second mold frame [respectively having] includes a [side wall] main portion and [a bottom surface] an extension portion that is substantially perpendicular to the [side wall]main portion,

wherein the [and is]extension portion [extended]extends towards the receiving space [to support] for supporting the back light assembly[,], and the groove shape portion is arranged along an inside edge of the extension portion [side wall], and

wherein an engaging recess is formed at a position substantially corresponding to the engaging hole of the first receptacle module [of the first mold frame and the second mold frame].

6. (Amended) [A] The liquid crystal display device [according to] of claim 5, wherein the receiver further comprises an engaging screw for engaging the first receptacle module and the second receptacle module by penetrating the engaging hole of the second receptacle module and engaging with the engaging recess of the first receptacle module

7. (Amended) [A] The liquid crystal display device [according to] of claim 4, wherein [the second receptacle module comprises a first mold frame and a second mold frame] the first mold frame and the second mold frame include [respectively having] a [side wall] main portion and [a bottom surface] an extension portion that is substantially perpendicular to the side wall, wherein the extension portion [and] extends [towards] in the direction of the receiving space to support the back light assembly; and

an engaging boss is formed at a position substantially corresponding to the engaging hole of the first receptacle module [of the first mold frame and the second mold frame].

8. (Amended) [A] The liquid crystal display device [according to] of claim 7, wherein the first receptacle module and the second receptacle module are engaged with each other by inserting the engaging boss of the second receptacle module so as to be substantially penetrated through the engaging hole of the first receptacle module and heat-fusing the engaging boss.

9. (Amended) [A] The liquid crystal display device [according to] of claim 2, wherein the first receptacle module [is comprised of] includes [at least one plate and] a catching recess.

10. (Amended) [A] The liquid crystal display device [according to] of claim 9, wherein [the second receptacle module comprises a] the first mold frame and [a] the second mold frame [respectively] includes [having] a [side wall] main portion and [a bottom surface] an extension portion that is substantially perpendicular to the [side wall] main portion, wherein the extension portion [and] extends towards the receiving space to support the back light assembly, said liquid crystal display device, further comprising: [and]

a catching jaw [that prevents] for preventing [the] horizontal deviation of the first receptacle module, wherein the catching jaw is formed on the bottom plate extending from the main portion of the second receptacle; and

a deviation preventing cap for preventing [the] vertical deviation of the first receptacle module when the catching recess is engaged with the catching jaw.

11. (Amended) [A] The liquid crystal display device [according to] of claim 10, wherein the catching jaw and the deviation preventing cap are formed at a position substantially corresponding to the catching recess of the first receptacle module.

12. (Amended) [A] The liquid crystal display device [according to] of claim 9, wherein [the second receptacle module comprises a] the first mold frame and [a] the second mold frame [respectively having] includes a [side wall] main portion and [a bottom surface] an extension portion that are substantially perpendicular to the [side wall] main portion, wherein [and] the extension portion extends towards the receiving space to support the back light assembly, said liquid crystal display device, further comprising: [and]

a catching jaw [that prevents the] for preventing horizontal deviation of the first receptacle module; and

a receiving recess for preventing [the] vertical deviation of the first receptacle module when the catching recess is engaged with the catching jaw by receiving the end portion of the first receptacle module towards an inner side of the side wall.

13. (Amended) [A] The liquid crystal display device [according to] of claim 2, wherein the first receptacle module [is comprised]comprises [of] at least one [plate and an] engaging boss.

14. (Amended) [A] The liquid crystal display device [according to] of claim 13, wherein [the second receptacle module comprises a] the first mold frame and [a]the second mold frame [respectively having a side wall] have a main portion and [a bottom surface] an extension portion that is substantially perpendicular to the [side wall] main portion, wherein the extension portion [and] extends towards the receiving space[,]; and

an engaging hole engaged with the engaging boss of the first receptacle module is formed in the first mold frame and the second mold frame of the second receptacle.

15. (Amended) [A] The liquid crystal display device [according to] of claim 14, wherein the first module and the second module are engaged with each other by inserting the engaging boss of the first receptacle module to substantially penetrate through the second receptacle module and by [rivetting] riveting the engaging boss in the engaging hole.

16. (Amended) [A] The liquid crystal display device [according to] of claim 2, wherein the first receptacle module is engaged with the [rear surface of the] second receptacle module.

17. (Amended) [A] The liquid crystal display device [according to] of claim 1, wherein the receiver₁ comprises:

a first receptacle module [that receives the light source] and a second receptacle module, engaged [with the] near an end portion of the first receptacle module[,]; [that receives the luminance improving device] and

a display unit, and

wherein the first receptacle module and the second receptacle module are formed of a same material.

18. (Amended) [A] The liquid crystal display device [according to] of claim 17, wherein the first receptacle module and the second receptacle module are composed of plastic.

19. (Amended) [A] The liquid crystal display device [according to] of claim 17, wherein the [first] second receptacle module comprises:

a [first side wall]a main portion [and a third side wall opposite to each other], an extension portion, [a second side wall connecting the first side wall and the third side wall], and [a] the bottom plate [connecting the]connected to a [bottom] lower surface of the [first side wall]main portion[, the second side wall, and the third side wall, and a receiving recess that receives the light source is formed on the inner side of the second side wall,]; and

an end portion of the second receptacle module is connected to an end portion of the first receptacle module by using a stepped portion.

20. (Amended) [A] The liquid crystal display device [according to] of claim 19, wherein an engaging hole is formed at one stepped jaw among the first receptacle module and the second receptacle module, and an engaging boss is formed at another stepped jaw.

MARKED-UP VERSION OF AMENDED SPECIFICATION

Please **REPLACE** the following paragraph at page 13, line 6:

A driving signal and a timing signal are applied to the gate line and the data line of the thin film transistor to control the arrangement of the liquid crystal of the liquid crystal panel 212 and the timing of the liquid crystal arrangement. As shown in the figures, a tape carrier package 216 that is a sort of flexible circuit board for determining the applying time of the data driving signal is attached to the source side of the liquid crystal display panel [712]212, and a gate side flexible circuit board 218 manufactured by the COF method for determining the applying time of the driving signal of the gate is attached to the gate side.

Please **REPLACE** the following paragraph at page 14, line 18:

The display unit 210 and the back light assembly 220 is supported by a mold frame [230]400 which is a receptacle assembly.

Please **REPLACE** the following paragraph at page 16, lines 1 and 4:

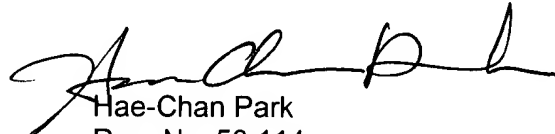
The second receptacle modules 410 and 420 comprises third and fourth receptacles 410 and 420 which are opposite to each other and are engaged with both ends of the first receptacle modules 430 and 440. The third and fourth receptacles 410 and 420 are formed such that side walls of which have a bar shape having a square cross-section covering the upper portions of the both ends of the first receptacle modules 430 and 440 in which the first and second engaging holes 432 and 434 and the third and fourth engaging holes 442 and 444 are formed. The third and fourth receptacles 410 and 420 are extended such that they surround upper portions adjacent to

the first to fourth engaging holes 432, 434, 442, and 444. Bottom plates [462]452 and 472 are extended from both side walls of the third and fourth receptacles 410 and 420 which are opposite to each other towards the inner sides thereof. The bottom plate [442]452 supports the back light assembly 220 and the display unit 210 which are sequentially received in a receiving space provided by engaging the first and second receptacle modules. The bottom surface of the middle portion of the receiving space provided by the first and second receptacle modules has an open shape to position the integrated printed circuit board 214.

U.S. Patent & Trademark Office
April 10, 2003
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 23-1951 referencing docket number 6192.0171.AA.

Respectfully submitted,



Hae-Chan Park
Reg. No. 50,114

HCP/kbs
Enclosures